

Rajesh Sawant

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EDUCATION

Arizona State University

Aug 2024 - May 2026

Master of Science, Computer Software Engineering (GPA: 3.63/4)

Tempe, AZ

- **Coursework:** Data Structures and Algorithms, Object Oriented Programming, Cloud Computing, Machine Learning, Big Data, Data Mining, Generative AI, Software Security, Testing and Validation, Software Project Management, Distributed Systems etc.

Savitribai Phule Pune University

Aug 2016 - May 2020

Bachelor of Engineering, Electronics and Telecommunications

Pune, India

TECHNICAL SKILLS

- **Programming Languages:** Python, Java, C/C++, SQL, JavaScript, TypeScript, HTML/CSS, MATLAB
- **Frameworks and Libraries:** ReactJS, Next.js, FastAPI, Node.js, Bootstrap, JUnit, Spring Boot, Tailwind, Playwright
- **Tools and Technologies:** VS Code, Eclipse, Postman, Figma, AWS Lambda, GitHub, n8n, Mendix
- **Databases:** PostgreSQL, Firestore, MySQL, MongoDB, NoSQL, GraphDB, DynamoDB, Neo4j
- **Cloud:** Amazon Web Services (AWS), Google Cloud Platform (GCP), Microsoft Azure, Firebase
- **DevOps & Project Management:** Git, GitHub Actions, SVN, Docker, Kubernetes, Terraform, Jira, Confluence

WORK EXPERIENCE

Arizona State University | Software Developer - Graduate Service Assistant

Jun 2025 - Present

- Designed and owned scalable backend and frontend workflows for manufacturer onboarding using Next.js, TypeScript, Prisma, FastAPI and MongoDB, improving reliability and reducing manual intervention.
- Built responsive, accessible UI components with shadcn/ui and Tailwind CSS, improving usability across devices and increasing user satisfaction by reducing onboarding time and registration errors.
- Implemented LLM-powered real-time and batch extraction workflows with asynchronous workers, retries, and controlled concurrency, increasing structured data coverage while keeping extraction latency within production limits.
- Built a distributed, queue-driven ETL pipeline processing data from 40,000+ manufacturer websites, using AWS SQS to decouple ingestion, extraction, and reconciliation stages and improve system fault tolerance.

Intelizn Lifecycle Services | Software Engineer

Aug 2021 - Jul 2024

- Designed and delivered production-grade enterprise web applications for manufacturing and automotive clients, working closely with cross-functional Scrum teams and stakeholders to translate business requirements into scalable solutions.
- Designed and owned data synchronization and ETL pipelines using REST APIs and service-oriented architectures to ingest, transform, and unify large-scale product and lifecycle data across Mendix, Java services, databases, and external systems, improving operational efficiency by ~30% and enabling downstream analytics.
- Built reusable React UI components and contributed to UI/UX design improvements, including conducting UI/UX design workshops and onboarding sessions for new team members to improve development consistency and usability standards.
- Led Agile execution at the team level, contributing to sprint planning, backlog refinement, code reviews, and CI/CD pipelines, while deploying and operating applications on AWS using Docker, Kubernetes to support scalable and reliable production systems.

PROJECTS

KGITP - Intelligent Travel Planning | IEEE

Oct 2024 - Dec 2024

- Led the end-to-end design of a semantic web driven travel planner, applying layered architecture and repository patterns to define system structure and knowledge graph access, and aligning the team on problem formulation.
- Performed ETL across heterogeneous datasets and modeled entities and relationships in a graph database, enabling semantic querying and geospatial filtering.
- Implemented FastAPI endpoints to orchestrate SPARQL queries and ranking logic, and built a React based UI to visualize personalized itineraries and geospatial results.

Smart Event and Meetup Platform | <https://sahana-drab.vercel.app/>

Jul 2024 - Present

- Implemented core domain APIs with FastAPI, including Google SSO, JWT based access control, event lifecycle management, RSVP handling, filtering, and paginated queries, and deployed a containerized backend to GCP Cloud Run with automated CI/CD via GitHub Actions.
- Designed ETL pipelines to ingest, normalize, deduplicate, and enrich external event data, and implemented embedding based ranking for interest and location aware event and user recommendations.
- Built a performance optimized React interface with map based discovery, Redux Toolkit caching, controlled data fetching, and responsive UI components.